

PATENT ABSTRACTS OF JAPAN

(11)Publication 64-027492

n number :

(43)Date of 30.01.1989

publication of

application :

(51)Int.Cl.

C12P 21/00

C07K 3/12

C07K 13/00

(21)Applicati 63-105372
on number :

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(22)Date of 27.04.1988
filing :

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(30)Priority

Priority number :

87 43331

Priority date :

28.04.1987 Priority country :

US

(54) PURIFICATION OF GRANULOCYTE-MACROPHAGE COLONY STIMULATING FACTOR

(57)Abstract:

PURPOSE: To rapidly and efficiently purify a granulocyte-macrophage colony stimulating factor (GM-CSF) by dissolving a microorganism capable of producing the GM-CSF, then solubilizing the GM-CSF present in an insoluble substance and oxidizing the GM-CSF in the presence of a reducing agent.

CONSTITUTION: A microorganism capable of producing a granulocyte- macrophage colony stimulating factor (GM-CSF) is dissolved and an insoluble substance containing the GM-CSF is separated from a soluble proteinaceous substance. The GM-CSF present in the insoluble substance is then solubilized with a chaotropic agent and the solubilized GM-CSF is subsequently oxidized in the presence of a reducing agent. An incorrectly folded GM-CSF is then precipitated to selectively separate the correctly folded GM-CSF from the incorrectly folded GM-CSF. Thereby, the purified GM-CSF is recovered from the solution.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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